| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API1 | All SCA-compliant APIs shall have their interfaces described in IDL. | API 4.2 | Inspection/ Analysis | Shall | |
| API2 | To further these ends, one of the following methods for creating APIs shall be used. | API 4.2.1 | Inspection/ Analysis | Shall | |
| API3 | For these identified methods, the order of preference shall flow from Item A to Item D. | API 4.2.1 | Inspection/ Analysis | Shall | |
| API4 | The standard transfer mechanism shall be CORBA except as allowed in 4.2.2.2. | API 4.2.2.1 | Inspection/ Analysis | Shall | |
| API5 | When an alternate transfer mechanism is used for real-time control and data flow, the transfer mechanism for initialization and non-real-time control shall use the standard transfer mechanism (if those controls can be separated). | API 4.2.2.2 | Inspection/ Analysis | Shall | |
| API6 | When an alternate transfer mechanism is used, the transfer and message syntax of the alternate transfer mechanism shall be mapped to the IDL of the API Service Definition. | API 4.2.2.2 | Inspection/ Analysis | Shall | |
| API7 | This mapping shall be identified by a UUID (separate from the Service Definition UUID). | API 4.2.2.2 | Inspection/ Analysis | Shall | |
| API8 | The description of the alternate transfer mechanism, an analysis supporting the performance need for the alternate mechanism, the mappings to the Service Definition, and the associated UUIDs shall be registered as defined in section 4.3.3. | API 4.2.2.2 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API9 | Irrespective of the transfer mechanism used, all behavior including state transitions and priorities defined in the service definition shall be obeyed by an API Instance. | API 4.2.2.2.1 | Inspection/ Analysis | Shall | |
| API10 | Transfer mechanisms shall be in accordance with commercial or government standards. | API 4.2.2.2.2 | Inspection/ Analysis | Shall | |
| API11 | Non-JTRS APIs that do not have IDL interfaces shall have a mapping to an IDL interface in a Service Definition as shown in Figure 4 2. | API 4.3.1 | Inspection/ Analysis | Shall | |
| API12 | SCA-compliant APIs shall be defined in Service Definitions conforming to the Service Definition Description (SDD) provided in Appendix A, except as allowed in 4.3.1. | API 4.3.2 | Inspection/ Analysis | Shall | |
| API13 | SCA-compliant Service Definitions shall conform to the Service Definition Description (SDD) provided in Appendix A, except as allowed in 4.3.1. | API 4.3.2 | Inspection/ Analysis | Shall | |
| API14 | Service Definition documentation of SCA-compliant APIs shall be submitted to a Registration Body to be established, initially, by the JTRS JPO. | API 4.3.3 | Inspection/ Analysis | Shall | |
| API15 | Each Service Definition shall be identified by a Universally Unique Identifier (UUID). | API 4.3.3 | Inspection/ Analysis | Shall | |
| API16 | The format of a Service Definition shall follow the structure of the following sections. | API A.2.1 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API17 | The third level of heading in this document shall be the first level of heading for a Service Definition. | API A.2.1 | Inspection/ Analysis | Shall | |
| API18 | Each Service Definition shall contain a cover page and a table of contents. | API A.2.1 | Inspection/ Analysis | Shall | |
| API19 | At a minimum, the cover page shall include a title, UUID, version number, and point of contact (name, organization, and address). | API A.2.1 | Inspection/ Analysis | Shall | |
| API20 | API documentation contains an Introduction section | API A.2.2 | Inspection/ Analysis | Implied | |
| API21 | Included in this overview shall be a list of supported protocols, algorithms, and waveforms. | API A.2.2 | Inspection/ Analysis | Shall | |
| API22 | The role of the service layer shall be described here in high level terms. | API A.2.1.2 | Inspection/ Analysis | Shall | |
| API23 | This section shall identify the different modes of the service, if any. | API A.2.2.1.3 | Inspection/ Analysis | Shall | |
| API24 | Included with the identified modes shall be a description of use. | API A.2.2.1.3 | Inspection/ Analysis | Shall | |
| API25 | This section shall identify the states for the services, if applicable. | API A.2.2.1.4 | Inspection/ Analysis | Shall | |
| API26 | Documents referenced by a Service Definition shall be listed here. | API A.2.2.1.5 | Inspection/ Analysis | Shall | |
| API27 | This section shall provide a UUID for APIs only. | API A.2.2.2 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API28 | This section shall provide a brief overview of services and a table of service groups, services, and the primitives that support those services. | API A.2.2.3 | Inspection/ Analysis | Shall | |
| API29 | This section shall identify a service group or service and provide a description of the service. | API A.2.2.3.x | Inspection/ Analysis | Shall | |
| API30 | If the service can be more clearly specified by further dividing into sub-services, the sub-services shall be specified in sub-paragraphs. | API A.2.2.3.x | Inspection/ Analysis | Shall | |
| API31 | Each identified service shall be accompanied by a brief explanation. | API A.2.2.3.x | Inspection/ Analysis | Shall | |
| API32 | A time sequence diagram shall accompany the lowest level of service identified when applicable . | API A.2.2.3.x | Inspection/ Analysis | Shall | |
| API33 | Service Primitives or Attributes shall be defined. | API A.2.2.4 | Inspection/ Analysis | Shall | |
| API34 | The primitives or attributes shall be grouped according to the services defined in sectionA.2.2.3.x. | API A.2.2.4.x | Inspection/ Analysis | Shall | |
| API35 | Inheritance relationships from Service Definitions not defined in this document shall be described and should be shown in the UML class diagrams. | API A.2.2.4.x | Inspection/ Analysis | Shall | |
| API36 | Each primitive shall start a new page in the Service Definition. | API A.2.2.4.x | Inspection/ Analysis | Shall | |
| API37 | The implied get and set operations for attributes shall be explicitly defined as primitives. | API A.2.2.4.x | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API38 | This section shall contain a brief description of the primitive or attribute. | API A.2.2.4.x.y | Inspection/ Analysis | Shall | |
| API39 | This section shall contain the syntax of the primitive or attribute in IDL format. | API A.2.2.4.x.y.1 | Inspection/ Analysis | Shall | |
| API40 | This section shall identify and describe the parameters for the primitive. | API A.2.2.4.x.y.2 | Inspection/ Analysis | Shall | |
| API41 | If a structure or structures are part of the parameter set, then each field shall be enumerated and described. | API A.2.2.4.x.y.2 | Inspection/ Analysis | Conditional | |
| API42 | This section shall identify the state(s) for which the primitive is valid. | API A.2.2.4.x.y.3 | Inspection/ Analysis | Shall | |
| API43 | This section shall identify the new state that results from the execution of the primitive, if any. | API A.2.2.4.x.y.4 | Inspection/ Analysis | Shall | |
| API44 | This section shall identify the response primitive, if any. | API A.2.2.4.x.y.5 | Inspection/ Analysis | Shall | |
| API45 | This section shall identify the originator of the primitive, the Service User or the Service Provider. | API A.2.2.4.x.y.6 | Inspection/ Analysis | Shall | |
| API46 | Any errors or exceptions that can occur as a result of the execution of the primitive shall be identified and described. | API A.2.2.4.x.y.7 | Inspection/ Analysis | Shall | |
| API47 | This section shall describe the allowable sequence of service primitives that may be issued across the interface. | API A.2.2.5 | Inspection/ Analysis | Shall | |
| API48 | The following state information shall be supplied: state name, transition primitive, expected outputs, and exceptions. | API A.2.2.5 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
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| API49 | If there are no defined sequences of primitives, this section shall so state. | API A.2.2.5 | Inspection/ Analysis | Shall | |
| API50 | This section shall present a summary of the precedence of service primitives as they are queued by the Service Provider and/or Service User. | API A.2.2.6 | Inspection/ Analysis | Shall | |
| API51 | The precedence shall be expressed in tabular form. | API A.2.2.6 | Inspection/ Analysis | Shall | |
| API52 | If there is no precedence of primitives, this section shall so state. | API A.2.2.6 | Inspection/ Analysis | Shall | |
| API53 | This section shall summarize the guidelines for implementing a Service User that will be independent of the implementation of the Service Provider. | API A.2.2.7 | Inspection/ Analysis | Shall | |
| API54 | This section shall identify the information to be documented for each service provider implementation. | API A.2.2.8 | Inspection/ Analysis | Shall | |
| API55 | This section shall include the complete IDL listing for the Service Definition. | API A.2.2.9 | Inspection/ Analysis | Shall | |
| API56 | New IDL shall be differentiated from the inherited IDL in some fashion (e.g., different font). | API A.2.2.9 | Inspection/ Analysis | Shall | |
| API57 | This section, if provided, shall include the UML diagrams for the Service Definition. | API A.2.2.10 | Inspection/ Analysis | Conditional | |
| API58 | The Packet BB and Signal BB or Simple Packet BB shall be used by all APIs to `push' data between software components (e.g., Physical, LLC, MAC and I/O). | API C.1.2 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| API59 | Note: The instantiating API shall only use one format of pushPacket (with flow control & QOS or without flow control & QOS). | API C.3 | Inspection/ Analysis | Shall | |
| API60 | (Epoch method shall be defined by instantiating API.) | API C.4.5.1.1 | Inspection/ Analysis | Shall | |
| API61 | This appendix shall summarize the guidelines for implementing a Service User that will be independent of the implementation of the Service Provider. | API E.8 | Inspection/ Analysis | Shall | |
| API62 | This appendix shall identify the information to be documented for each service provider implementation. | API E.9 | Inspection/ Analysis | Shall | |
| API63 | This appendix, if provided, shall include the UML class and component diagrams for the Service Definition. | API E.11 | Inspection/ Analysis | Conditional | |
| API64 | All I/O APIs shall use the I/O API building blocks. | API H.1.2 | Inspection/ Analysis | Shall | |
| API65 | This appendix shall identify the information to be documented for each service provider implementation. | API H.9 | Inspection/ Analysis | Shall | |
| API66 | Wording within <> represents information that shall be supplied by the developer. | API A.2 | Inspection/ Analysis | Shall | |

| API Tag | Requirement text | Section Number | Verification Method | Requirement Type | Change Status |
|---|---|---|---|---|---|
| Summary of Analysis | | | | | |
| | Not Testable | | 0 | | |
| | Inspection/Analy | | 66 | | |
| | Demonstration | | 0 | | |
| | Test | | 0 | | |
| | Witness | | 0 | | |
| | Total Verificatiion Method | | **66** | | |
| | Total Blank | | **0** | | |
| | Shall | | | 62 | |
| | Conditional | | | 3 | |
| | Implied | | | 1 | |
| | Total Requirement Type | | | **66** | |
| | Total Blank | | | **0** | |